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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,383	03/04/2002	Maria Laura Gennaro	07763-043001	7070
26211	7590 07/01/2003			
	CHARDSON P.C.	EXAMINER		
45 ROCKEFI NEW YORK	ELLER PLAZA, SUITE , NY 10111	2800	SWARTZ, RODNEY P	
			ART UNIT	PAPER NUMBER
		-	1645 DATE MAILED: 07/01/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

* 4		Application No.	Applicant(s)			
(•	10/009,383	GENNARO, MARIA LAURA			
	Offic Action Summary	Examiner	Art Unit			
		Rodney P. Swartz, Ph.D.				
	- The MAILING DATE of this c mmunicati n					
Period fo			•			
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATION Sions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory preceived by the Office later than three months after the rid patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may n. a reply within the statutory minimum of the critical apply and will expire SIX (6) Mostatute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1) 🖂	Responsive to communication(s) filed on	23April2003 .				
2a)□		This action is non-final.				
3)□	Since this application is in condition for al		atters, prosecution as to the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disp sition of Claims						
4)⊠	Claim(s) 1-34 is/are pending in the application	ation.				
4a) Of the above claim(s) 19-34 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>19-34</u> is/are rejected.						
7)	Claim(s) is/are objected to.	•				
8) Claim(s) 1-34 are subject to restriction and/or election requirement.						
Application	on Papers					
	The specification is objected to by the Exar					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection	= ' '				
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Pri rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)L	☐ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449) Paper No	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			
J.S. Patent and Tr	ademark Office					

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DETAILED ACTION

1. Applicant's Response to Restriction, received 23April2003, paper#8, is acknowledged. Applicant elects, without traverse, Invention I, claims 1-18, drawn to DNA, vector, transformed cells, polypeptides, and a first method of use for diagnosis *in vivo*.

Claims 19-34 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

2. Claims 1-18 are under consideration.

Specification

- 3. The disclosure is objected to because of the following informalities:
 - a) page 14, line 6, should "MPBN4" be "MTBN4",

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 1-18 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for MTBN4, does not reasonably provide enablement for the other listed polypeptides. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The instant claims are drawn to isolated DNA comprising DNA sequences encoding a variety of polypeptides wherein said polypeptide has M. tuberculosis specific antigenic and immunologic properties.

The instant specification only teaches MTBN4 skin reactivity in guinea pigs infected with M. tuberculosis, sensitized with M. bovis BCG, or sensitized with M. avium. The specification does not teach any reactivities with the other listed polypeptides. Therefore, the specification is only enabled for DNA encoding MTBN4.

Claims 17 and 18 are rejected under 35 U.S.C. 112, first paragraph, because the 7. specification, while being enabling for MTBN4 skin reactivity in guinea pigs infected with M. tuberculosis, sensitized with M. bovis BCG, or sensitized with M. avium, does not reasonably provide enablement for diagnosis of susceptibility to M. tuberculosis infection. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. .

The instant claims are drawn to a method of diagnosis by detecting an immune response in a subject which is "susceptible" to M. tuberculosis.

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While the instant specification teaches a method of detecting skin reactivity in guinea pigs infected with *M. tuberculosis*, sensitized with *M. bovis* BCG, or sensitized with *M. avium*, the specification does not teach nor provide sufficient guidance for detecting whether an individual subject is "susceptible" to infection with *M. tuberculosis*. Therefore, the instant claims merely constitute an invitation to experiment without a reasonable expectation of success.

Conclusion

- **8.** No claims are allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney P. Swartz, Ph.D., whose telephone number is (703) 308-4244. The examiner can normally be reached on Monday through Thursday from 5:30 AM to 4:00 PM EST.

If attempts to reach the Examiner by telephone are unsuccessful, the examiner's supervisor, Lynette F. Smith, can be reached on (703)308-3909. The facsimile telephone number for the Art Unit Group is (703)308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)308-0196.

RODNEY P SWARTZ, PH.D PRIMARY EXAMINER

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June 30, 2003